

# Product Datasheet

## **PD-ECGF/Thymidine Phosphorylase Antibody (SPM322) [FITC] NBP2-54403F**

Unit Size: 100 ul

Store at 4C in the dark.

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**NBP2-54403F****PD-ECGF/Thymidine Phosphorylase Antibody (SPM322) [FITC]**

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	SPM322
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Conjugate</b>	FITC
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Description</b>	This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.
<b>Host</b>	Mouse
<b>Gene ID</b>	1890
<b>Gene Symbol</b>	TYMP
<b>Species</b>	Human, Mouse, Rat
<b>Marker</b>	Angiogenesis Marker
<b>Specificity/Sensitivity</b>	Recognizes a protein (amino acid 482) of 55kDa (in vivo 110kDa homodimer), identified as platelet-derived endothelial growth factor (PD-ECGF), same as thymidine phosphorylase (TP) or gliostatin. In the presence of inorganic orthophosphate, it catalyzes the reversible phospholytic cleavage of thymidine and deoxyuridine to their corresponding bases and 2-deoxyribose-1-phosphate. It is both chemotactic and mitogenic for endothelial cells and a non-heparin binding angiogenic factor present in platelets. Its enzymatic activity is crucial for angiogenic activity (metabolite is angiogenic). Higher levels of serum TP/PD-ECGF are observed in cancer patients. It is also involved in transformation of fluoropyrimidines, cytotoxic agents used in the treatment of a variety of malignancies, into active cytotoxic metabolites (e.g. 5-deoxy-5-fluorouridine to 5-FU). High intra-cellular levels of TP/PD-ECGF are associated with increased chemosensitivity to such antimetabolites.
<b>Immunogen</b>	Recombinant full-length human PD-ECGF/Thymidine Phosphorylase protein (Uniprot: P19971)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot, Immunohistochemistry, Immunoprecipitation, Immunohistochemistry-Paraffin
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.





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### **Products Related to NBP2-54403F**

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NBP1-43319F	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [FITC]
NBP1-84916PEP	PD-ECGF/Thymidine Phosphorylase Recombinant Protein Antigen
210-TA-005	TNF-alpha [Unconjugated]
229-PE-010/CF	PD-ECGF/Thymidine Phosphorylase [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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